

AMENDMENT TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

IN THE CLAIMS

1. **(CURRENTLY AMENDED)** A process for the production of electrical steel sheet cores for use in electrical equipment comprising the following steps
 - a) applying of at least one coating layer of an aqueous composition onto the surface of the electrical steel sheet, the composition comprisingconsisting of
 - A) 100 parts per weight of one or more epoxy resins based on bisphenol-A-type, 100% of solids,
 - B) 1 to 25 parts per weight of dicyandiamide,
 - C) 0.1 to 10 parts per weight of additives,
 - D) 0.1 to 120 parts per weight of at least one organic solvent as flow agent and
 - E) 50 to 200 parts per weight of water,
 - b) drying the applied layer under increased temperature and
 - c) assembling of—a at least one coated electrical steel sheet ~~coated electrical steel sheets~~ obtained in step b) with at least one additional electrical steel sheet to form a sheet core and bonding the sheets with each other by thermal curing of the coating.
2. **(CURRENTLY AMENDED)** The process according to claim 1 wherein the composition is produced by production of an epoxy dispersion by mixing the epoxy resin with water and then adding components B) – E) wherein the composition has a solids content of 30% to 60%.

3. **(ORIGINAL)** The process according to claim 2 wherein the epoxy resin is used in a quantity of 40 to 70 wt.% in the aqueous dispersion.
4. **(PREVIOUSLY PRESENTED)** The process according to claim 1 wherein water is added in a quantity such that a solids content of 30 to 60% is obtained for the composition of step a).
5. **(ORIGINAL)** The process according to claim 1 wherein the number average molar mass of the epoxy resin is from about 700 to 5000, the epoxy equivalent weight from about 400 to 6000.
6. **(ORIGINAL)** The process according to claim 1 wherein micronized dicyandiamide is used with an average particle size of no greater than 6 µm.
7. **(CURRENTLY AMENDED)** The process according to claim 1 wherein polyglycol diethylene glycol monobutylether is used as a flow agent in a quantity of 2 to 70 parts per weight.
8. **(ORIGINAL)** The process according to claim 1 wherein one or more monomeric organo-metallic compounds selected from the group consisting of ortho-titanic and -zirconic acid esters are additionally used in the composition.
9. **(ORIGINAL)** The process according to claim 1 wherein the composition is applied onto the unpretreated and uncoated electrical steel sheet as one-layer-coating with a layer thickness of 3 to 8 µm.

10. **(ORIGINAL)** The process according to claim 1 wherein the drying of the coating is effected at temperatures causing a PMT in the range of 230 to 260°C.

11. **(ORIGINAL)** The process according to claim 1 wherein the bonding and curing of the coating is effected at temperatures from 100 to 300°C and at a pressure of 1.0 to 6.0 N/mm² during a fixed time period.

12. **(WITHDRAWN)** An electrical steel sheets core for use in electrical equipment produced by the process according to claim 1.